

Appendix table 5-37.

Estimates of academic doctoral researchers and graduate research assistants by field: 1973–99

Year	Employment		Researcher headcount		Research is primary activity		Graduate research assistants	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
S&E total								
1973	118.0	100	82.3	100	27.8	100	35.9	100
1975	134.1	100	90.6	100	30.8	100	40.0	100
1977	145.4	100	85.0	100	37.0	100	43.7	100
1979	155.3	100	90.0	100	41.3	100	49.0	100
1981	167.1	100	100.7	100	46.5	100	52.7	100
1983	176.1	100	104.7	100	48.9	100	54.9	100
1985	190.2	100	115.2	100	55.9	100	61.0	100
1987	195.9	100	144.0	100	66.5	100	70.2	100
1989	206.6	100	151.6	100	72.2	100	79.1	100
1991	210.6	100	156.6	100	73.9	100	85.2	100
1993	213.8	100	150.1	100	80.2	100	90.2	100
1995	217.5	100	153.5	100	83.0	100	89.9	100
1997	232.5	100	164.7	100	88.6	100	88.0	100
1999	240.2	100	168.1	100	91.4	100	91.3	100
Physical sciences								
1973	22.1	18.7	16.3	19.8	5.9	21.3	6.3	17.5
1975	23.6	17.6	16.9	18.7	6.4	20.8	6.4	16.1
1977	25.0	17.2	16.3	19.2	7.9	21.3	6.8	15.6
1979	24.6	15.9	15.4	17.1	7.5	18.3	7.8	15.9
1981	25.3	15.2	16.3	16.2	8.0	17.1	8.6	16.3
1983	25.1	14.3	16.1	15.3	7.7	15.9	9.1	16.7
1985	27.0	14.2	17.7	15.4	9.4	16.8	10.3	16.9
1987	27.2	13.9	20.3	14.1	10.2	15.3	11.6	16.5
1989	27.7	13.4	20.8	13.7	10.9	15.1	12.4	15.7
1991	27.7	13.1	20.8	13.3	10.6	14.4	12.2	14.4
1993	28.6	13.4	20.0	13.3	12.0	15.0	12.3	13.6
1995	29.4	13.5	20.6	13.4	12.6	15.2	11.8	13.1
1997	30.2	13.0	21.8	13.2	12.7	14.4	11.3	12.8
1999	30.9	12.9	21.6	12.8	12.2	13.3	11.3	12.3
Mathematics								
1973	9.7	8.2	6.8	8.3	1.5	5.4	0.7	1.9
1975	11.0	8.2	7.5	8.2	1.5	4.7	0.6	1.6
1977	11.7	8.0	6.8	8.0	1.8	4.9	0.8	1.8
1979	12.2	7.9	6.9	7.7	2.1	5.0	0.8	1.7
1981	12.4	7.4	6.8	6.8	1.9	4.2	0.8	1.4
1983	12.9	7.3	7.2	6.9	2.0	4.0	0.8	1.5
1985	13.6	7.1	7.6	6.6	2.7	4.8	1.0	1.6
1987	13.8	7.1	9.7	6.7	3.2	4.7	1.1	1.6
1989	14.5	7.0	10.2	6.8	3.5	4.8	1.3	1.6
1991	15.2	7.2	10.7	6.9	3.5	4.8	1.4	1.6
1993	15.5	7.2	9.5	6.3	3.4	4.2	1.4	1.6
1995	14.6	6.7	9.4	6.1	3.3	3.9	1.5	1.6
1997	15.6	6.7	10.1	6.2	3.5	4.0	1.4	1.6
1999	15.2	6.3	9.9	5.9	2.9	3.2	1.3	1.4
Computer sciences								
1973	NA	NA	NA	NA	NA	NA	0.7	1.8
1975	NA	NA	NA	NA	NA	NA	0.7	1.9
1977	NA	NA	NA	NA	NA	NA	0.7	1.7
1979	0.1	0.1	0.1	0.1	0.0	0.1	0.8	1.7
1981	0.3	0.2	0.3	0.3	0.1	0.2	1.1	2.1
1983	0.5	0.3	0.4	0.3	0.2	0.4	1.4	2.5
1985	0.8	0.4	0.6	0.5	0.4	0.7	2.1	3.4
1987	1.1	0.5	1.0	0.7	0.7	1.0	2.8	4.0
1989	1.5	0.7	1.3	0.9	0.8	1.1	3.3	4.2
1991	2.0	0.9	1.7	1.1	1.1	1.4	3.6	4.2
1993	2.5	1.2	2.0	1.3	0.9	1.1	3.8	4.2
1995	3.1	1.4	2.4	1.6	1.0	1.3	3.9	4.4
1997	3.3	1.4	2.4	1.5	1.1	1.2	4.0	4.6
1999	3.7	1.5	2.6	1.6	1.1	1.2	4.9	5.4

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 5-37.

Estimates of academic doctoral researchers and graduate research assistants by field: 1973–99

Year	Employment		Researcher headcount		Research is primary activity		Graduate research assistants	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Earth, atmospheric, and ocean sciences								
1973	3.4	2.9	2.5	3.0	0.7	2.5	2.6	7.1
1975	3.9	2.9	2.8	3.1	0.8	2.7	2.8	7.1
1977	4.2	2.9	2.9	3.4	1.0	2.7	3.2	7.4
1979	4.2	2.7	2.7	3.0	1.0	2.4	3.6	7.3
1981	4.6	2.7	3.2	3.2	1.4	2.9	3.5	6.6
1983	4.8	2.7	3.3	3.1	1.5	3.0	3.5	6.4
1985	5.2	2.8	3.7	3.2	1.6	2.9	3.7	6.1
1987	5.6	2.8	4.6	3.2	2.1	3.2	3.6	5.2
1989	5.9	2.8	4.9	3.2	2.4	3.3	4.2	5.2
1991	6.0	2.9	5.1	3.3	2.5	3.4	4.4	5.2
1993	6.4	3.0	5.0	3.3	2.7	3.4	4.7	5.2
1995	6.4	3.0	5.1	3.3	2.6	3.1	4.7	5.2
1997	7.3	3.2	5.6	3.4	2.9	3.2	4.3	4.9
1999	7.8	3.2	5.6	3.4	2.9	3.2	4.3	4.7
Life sciences								
1973	34.9	29.5	26.0	31.6	12.8	46.0	9.5	26.3
1975	39.4	29.4	29.0	32.0	14.5	47.0	11.3	28.3
1977	42.6	29.3	28.7	33.7	16.6	44.7	13.1	30.0
1979	47.0	30.3	32.1	35.6	19.7	47.6	15.4	31.5
1981	51.3	30.7	37.1	36.8	23.2	49.9	16.3	31.0
1983	54.8	31.1	38.3	36.6	24.3	49.7	16.5	30.0
1985	58.7	30.8	41.4	35.9	27.1	48.4	17.9	29.3
1987	61.2	31.3	48.8	33.9	31.5	47.3	20.2	28.8
1989	64.8	31.3	51.8	34.1	33.8	46.7	23.2	29.3
1991	66.9	31.8	53.3	34.1	34.5	46.7	25.8	30.3
1993	68.2	31.9	51.8	34.5	36.0	44.9	28.0	31.1
1995	71.6	32.9	53.8	35.1	37.7	45.3	29.3	32.5
1997	77.3	33.2	57.9	35.2	40.5	45.7	28.6	32.5
1999	81.9	34.1	60.8	36.2	43.2	47.2	29.0	31.7
Psychology								
1973	12.2	10.4	7.3	8.9	2.0	7.3	1.9	5.4
1975	14.8	11.0	8.5	9.4	2.2	7.1	2.2	5.5
1977	16.2	11.1	7.7	9.1	2.8	7.5	2.3	5.3
1979	17.7	11.4	8.3	9.2	3.4	8.3	2.5	5.2
1981	20.1	12.0	9.9	9.8	4.1	8.8	2.9	5.5
1983	21.0	11.9	10.5	10.0	4.4	8.9	3.0	5.4
1985	23.1	12.1	10.7	9.3	4.6	8.2	3.1	5.0
1987	23.7	12.1	14.3	9.9	5.2	7.8	3.2	4.6
1989	25.0	12.1	14.3	9.5	5.9	8.2	3.8	4.9
1991	25.2	12.0	15.7	10.0	6.2	8.4	4.2	5.0
1993	25.0	11.7	14.9	9.9	6.7	8.3	4.6	5.1
1995	26.1	12.0	15.6	10.1	7.4	8.9	4.6	5.1
1997	27.3	11.7	16.1	9.8	8.0	9.0	4.8	5.4
1999	29.0	12.1	17.2	10.2	8.6	9.5	4.8	5.3
Social sciences								
1973	23.4	19.8	14.3	17.4	2.8	10.2	4.0	11.1
1975	28.0	20.9	16.9	18.6	3.2	10.2	4.8	12
1977	31.1	21.4	13.8	16.2	4.1	11.1	4.9	11.2
1979	33.6	21.6	14.7	16.3	4.2	10.1	5.2	10.6
1981	36.9	22.1	17.6	17.5	4.5	9.7	5.2	9.8
1983	38.8	22.0	17.8	17.0	4.9	10.1	5.0	9.2
1985	41.9	22.0	20.9	18.2	5.7	10.2	5.1	8.3
1987	42.1	21.5	28.5	19.8	7.5	11.3	5.5	7.8
1989	44.5	21.5	30.5	20.1	8.2	11.3	6.2	7.9
1991	44.8	21.3	31.1	19.8	8.4	11.3	6.8	8.0
1993	44.4	20.8	29.3	19.5	10.7	13.4	7.4	8.2
1995	42.5	19.5	28.1	18.3	9.8	11.8	7.2	8.0
1997	44.9	19.3	29.8	18.1	9.8	11.1	6.7	7.7
1999	46.2	19.2	30.9	18.4	11.1	12.1	7.2	7.9

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 5-37.

Estimates of academic doctoral researchers and graduate research assistants by field: 1973–99

Year	Employment		Researcher headcount		Research is primary activity		Graduate research assistants	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Engineering								
1973	12.4	10.5	9.0	11.0	2.1	7.4	10.4	28.9
1975	13.4	10.0	9.0	10.0	2.3	7.5	11.0	27.5
1977	14.8	10.1	8.9	10.5	2.9	7.9	11.8	27.1
1979	15.8	10.2	9.8	10.9	3.4	8.2	12.8	26.2
1981	16.1	9.7	9.5	9.5	3.3	7.2	14.4	27.3
1983	18.1	10.3	11.2	10.7	3.9	7.9	15.5	28.3
1985	19.9	10.5	12.5	10.8	4.4	7.9	17.9	29.4
1987	21.2	10.8	16.8	11.6	6.2	9.3	22.2	31.6
1989	22.8	11.0	17.6	11.6	6.9	9.5	24.6	31.1
1991	22.8	10.8	18.2	11.6	7.2	9.7	26.8	31.4
1993	23.1	10.8	17.5	11.7	7.9	9.8	27.9	31.0
1995	23.8	10.9	18.5	12.1	8.7	10.5	27.0	30.1
1997	26.6	11.4	20.9	12.7	10.1	11.4	26.9	30.6
1999	25.5	10.6	19.4	11.6	9.4	10.3	28.7	31.4

NA = not available

NOTE: Headcounts are the sum of respondents for whom research is either the primary or secondary work activity. Graduate research assistants are full-time students with research assistantships as their primary mechanism of support. Foreign-earned doctorates are excluded.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), Survey of Doctorate Recipients and Survey of Graduate Students and Postdoctorates in Science and Engineering.

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